

## artdaq Utilities - Feature #16635

**Have the DAQInterface configuration file support arbitrary numbers of data loggers and dispatchers.**

05/23/2017 02:23 PM - John Freeman

<b>Status:</b>	Resolved	<b>Start date:</b>	05/23/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Experiment:</b>	-	<b>Co-Assignees:</b>	
<b>Description</b>			
<p>This is accomplished with DAQInterface commit f80236d5ce3c4a1826d1857dc38ca73dee76df21. If the version of the bookkeeping function selected for DAQInterface is bookkeeping_for_fhicl_documents_artdaq_v3_base, then users can define arbitrary #'s of data loggers and dispatchers in the DAQInterface configuration file, e.g. like so:</p>			
<pre>DataLogger host: localhost DataLogger port: 5265  DataLogger host: localhost DataLogger port: 5266  DataLogger host: localhost DataLogger port: 5267  Dispatcher host: localhost Dispatcher port: 5268  Dispatcher host: localhost Dispatcher port: 5269</pre>			
<p>The default behavior is for the data loggers to send out all their events, but divided among the dispatchers so if we have <math>N</math> dispatchers, each one receives <math>1/N</math> events. A simple boolean in bookkeeping_for_fhicl_documents_artdaq_v3_base allows one to change this behavior so that each dispatcher receives every event.</p>			
<p>Note that the bookkeeping function used by default in DAQInterface will remain bookkeeping_for_fhicl_documents_artdaq_v2_base (only allowing for one data logger), until the official artdaq-demo installation instructions at <a href="https://cdcv.sfnal.gov/redmine/projects/artdaq-demo/wiki">https://cdcv.sfnal.gov/redmine/projects/artdaq-demo/wiki</a> refer to the new artdaq-demo / artdaq versions, v2_09_03 and v2_02_03, respectively.</p>			